

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: KUO, Terry B. J.; YANG, Cheryl C. H.

SERIAL NO.:

FILED: Herewith

TITLE: METHOD AND APPARATUS FOR ANALYZING HEART RATE VARIABILITY

PRELIMINARY AMENDMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In conjunction with the filing of the present application, and prior to an initial Official Action on this matter, please amend the above-identified application as follows:

Preliminary Amendment: SPECIFICATION AMENDMENTS

In Paragraph [0006], please amend the paragraph as follows:

[0006] In recent years, plenty of new technologies to evaluate the autonomic functions were successfully developed. Given the sophisticated computer hardware and software know-how available, today ~~we are able~~ it is possible to detect and perform quantitative analysis of a person autonomic cardiac activity in light of the minute fluctuations of hear rate, known as heart rate variability (HRV), taken while the person is at rest. In other words, the new technologies allow ~~us~~ a user to analyze or evaluate a normal person's autonomic functions without interfering with the person's daily life. Heart rate variability analysis stands out above other methods for evaluation of autonomic functions, because it has the following advantages: (1) being a non-invasive diagnosis technology, it does not cause a subject any pain, (2) the hardware it uses is cheap, thus it has the potential for large-scale promotion, and (3) many animal tests and human tests prove that it evaluates autonomic functions accurately. Therefore, the technology of heart rate variability analysis is in wide use in recent years, and related research is conducted on it unceasingly.

In Paragraphs [0017] to [0021], please amend the paragraphs as follows:

[0017] FIG. 1 ~~illustrates~~ is a schematic diagram illustrating a known process flow of heart rate variability analysis;

[0018] FIG. 2 ~~illustrates~~ is a perspective view illustrating the heart rate variability analytical apparatus of the present invention;